

## ANALYSIS OF THE RESULTS OF LONG-TERM EMI EXPOSURE ON COGNITIVE FUNCTIONS OF THE OFFSPRING OF IRRADIATED RATS

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The article shows the results of experimental work to assess the psychophysiological status of the offspring of the first generation of Wistar rats, which were exposed to prolonged electromagnetic radiation in the mobile range. Irradiation conditions: carrier frequency 1800 MHz, the zone of the formed wave, EFD 85  $\mu\text{W}/\text{cm}^2$ , the distance from the radiation source 1.3 m, 1 hour per day. Males and females were irradiated 18 days before mating, then females were irradiated from 5 to 17 days of pregnancy. The cognitive (memorable) functions of the brain of offspring were evaluated by their ability to develop and reproduce the conditioned reflex of active avoidance (CRAA). In males of the first generation, deviations in conditioned reflex activity were not detected. In females of the first generation, a decrease in the learning rate and a damage of long-term memory were found.

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